Quiz 5

COMP9021 Principles of Programming

2017 session 2

Sample outputs

```
$ python3 quiz_5.py
Enter four nonnegative integers: 0 1 4 4
Here is the grid that has been generated:
    1 1 0 1
    1 1 1 1
    1 0 0 1
    0 0 1 0
The number of paths from 1 to 1 is: 10
$ python3 quiz_5.py
Enter four nonnegative integers: 0 2 4 4
Here is the grid that has been generated:
    1 1 0 1
    2 1 1 1
    1 1 2 0
    2 0 1 0
The number of paths from 1 to 1 is: 3
The number of paths from 1 to 2 is: 7
$ python3 quiz_5.py
Enter four nonnegative integers: 0 3 4 6
Here is the grid that has been generated:
    3 3 0 2 3 3
    2 3 2 1 1 2
    1 0 2 1 2 0
    0 2 3 0 2 3
The number of paths from 1 to 2 is: 2
The number of paths from 1 to 3 is: 6
```

```
$ python3 quiz_5.py
Enter four nonnegative integers: 0 4 5 8
Here is the grid that has been generated:
    3 3 0 2 4 3 3 2
    3 2 4 1 4 1 2 1
    0 4 2 4 4 1 2 0
    0 2 3 4 0 2 3 2
    4 1 4 3 3 4 2 0
The number of paths from 1 to 2 is: 1
The number of paths from 1 to 3 is: 5
The number of paths from 1 to 4 is: 2
$ python3 quiz_5.py
Enter four nonnegative integers: 0 4 6 6
Here is the grid that has been generated:
    3 3 0 2 4 3
    3 2 3 2 4 1
    4 1 2 1 0 4
    2 4 4 1 2 0
    0 2 3 4 0 2
    3 2 4 1 4 3
The number of paths from 1 to 1 is: 2
The number of paths from 1 to 2 is: 1
The number of paths from 1 to 3 is: 5
The number of paths from 1 to 4 is: 1
```